

FIG. 1

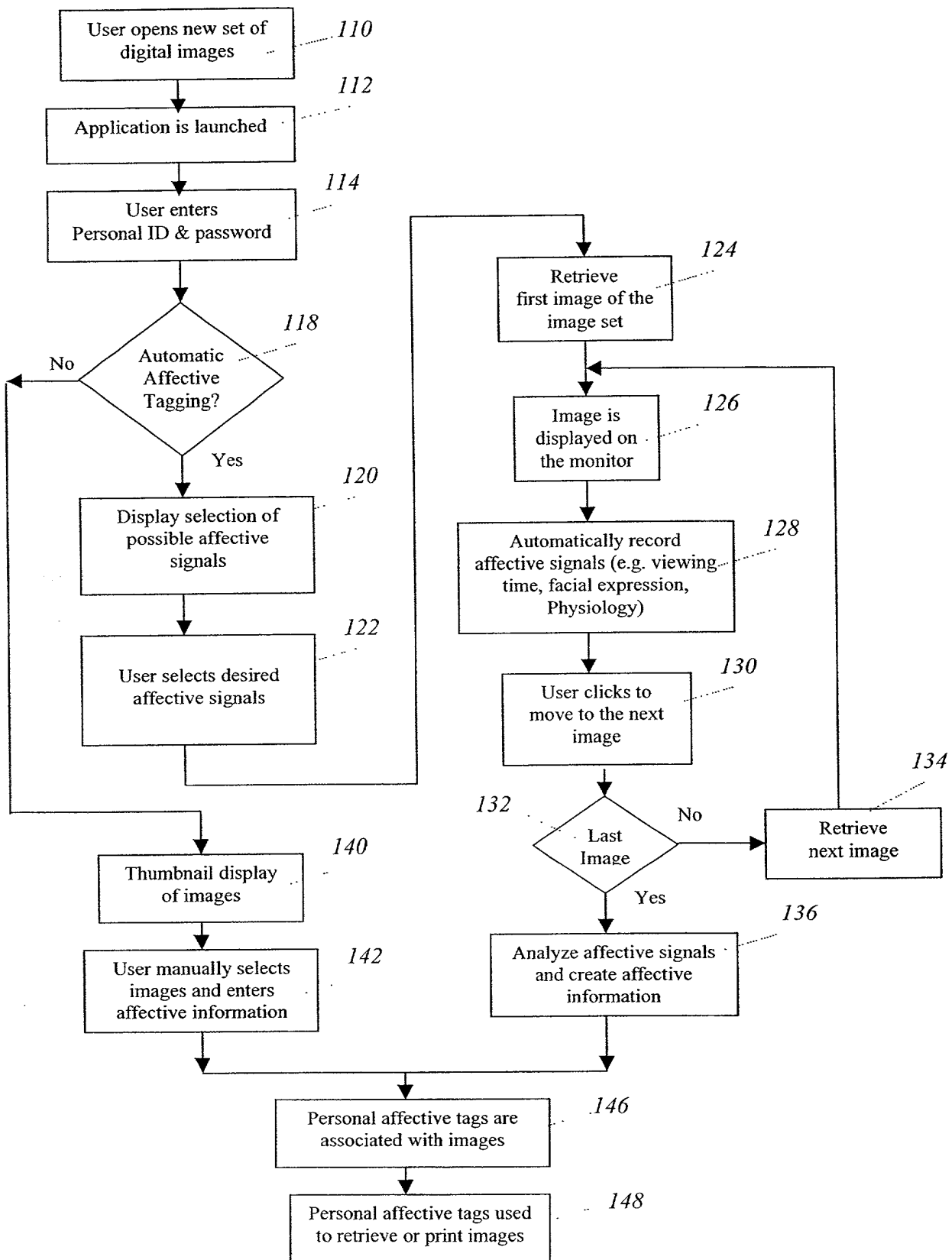


Fig. 2

**These signals are going to be recorded for determining  
your psychological reaction to images**

☒ **Viewing Time**

☒ **Facial Expression / Head Movements**

☒ **Physiology**

☐ **Audio**

☐ **Gaze tracking**

☐ **Touch Pressure**

Fig. 3A. GUI screen with signals recording selection

**These signals are going to be recorded for determining  
your psychological reaction to images**

☒ **Viewing Time**

☒ **Facial Expression / Head Movements**

☒ **Physiology**

<input checked="" type="checkbox"/> <b>Heart Rate</b>
<input checked="" type="checkbox"/> <b>GSR</b>
<input checked="" type="checkbox"/> <b>Temperature</b>
<b>EEG</b>

☐ **Audio**

☐ **Gaze tracking**

☐ **Touch Pressure**

Fig. 3B. GUI screen with signals recording selection and physiological signals menu.

Personal Affective Tag field - PAT
Personal Identification field – PID_1
<b>Affective Record Start field – BEGIN_RECORD_1</b>
Date field – DATE
Location field – LOCATION
Affect field – AFFECT
Viewing time field – VIEWING_TIME
Physiology GSR field – GSR_SIGNAL
Physiology Temperature field – TEMP_SIGNAL
Ambient Temperature – AMBIENT_TEMP_SIGNAL
Physiology Heart Rate field – HR_SIGNAL
Face Expression field – FACE_EXPRESSION_DATA
<b>Affective Record Start field – BEGIN_RECORD_2</b>
Date field - DATE
Location field – LOCATION
Affect field – AFFECT
Viewing time field – VIEWING_TIME
Physiology GSR field – GSR_SIGNAL
Physiology Temperature field – TEMP_SIGNAL
Physiology Heart Rate field – HR_SIGNAL
Physiology EEG field – EEG_SIGNAL
Face Expression field – FACE_EXPRESSION_DATA
Gaze tracking field – GAZE_TRACKING_DATA
<b>Behavior Record Start field – BEGIN_RECORD_3</b>
Number of times viewed field – VIEWING_COUNTER
Number of times printed field – PRINTING_COUNTER
Number of times sent in e-mail field – E_MAIL_COUNTER

Fig. 4A

<b>Personal Affective Tag 1</b>
Personal Identification = User 1
Date = Aug 1, 2000
Importance = 8.....
<b>Personal Affective Tag 2</b>
Personal Identification = User 2
Date = July 4, 2001
Importance = 4.....
<b>Personal Affective Tag 3</b>
Personal Identification = User 1
Date = Oct 8, 2001
Importance = -5.....

Fig. 4B

FIG. 4C is a schematic diagram of a data structure for image metadata. The structure is organized into three main sections: Capture Device Metadata, Affective Metadata, and Image Data. The Capture Device Metadata section includes fields for device make/model, capture date, and lens settings. The Affective Metadata section is divided into multiple tags (e.g., Tag 1, Tag n), each containing personal identification, affective record, optional affective signal, and optional behavior record. The Image Data section is a large block at the bottom.

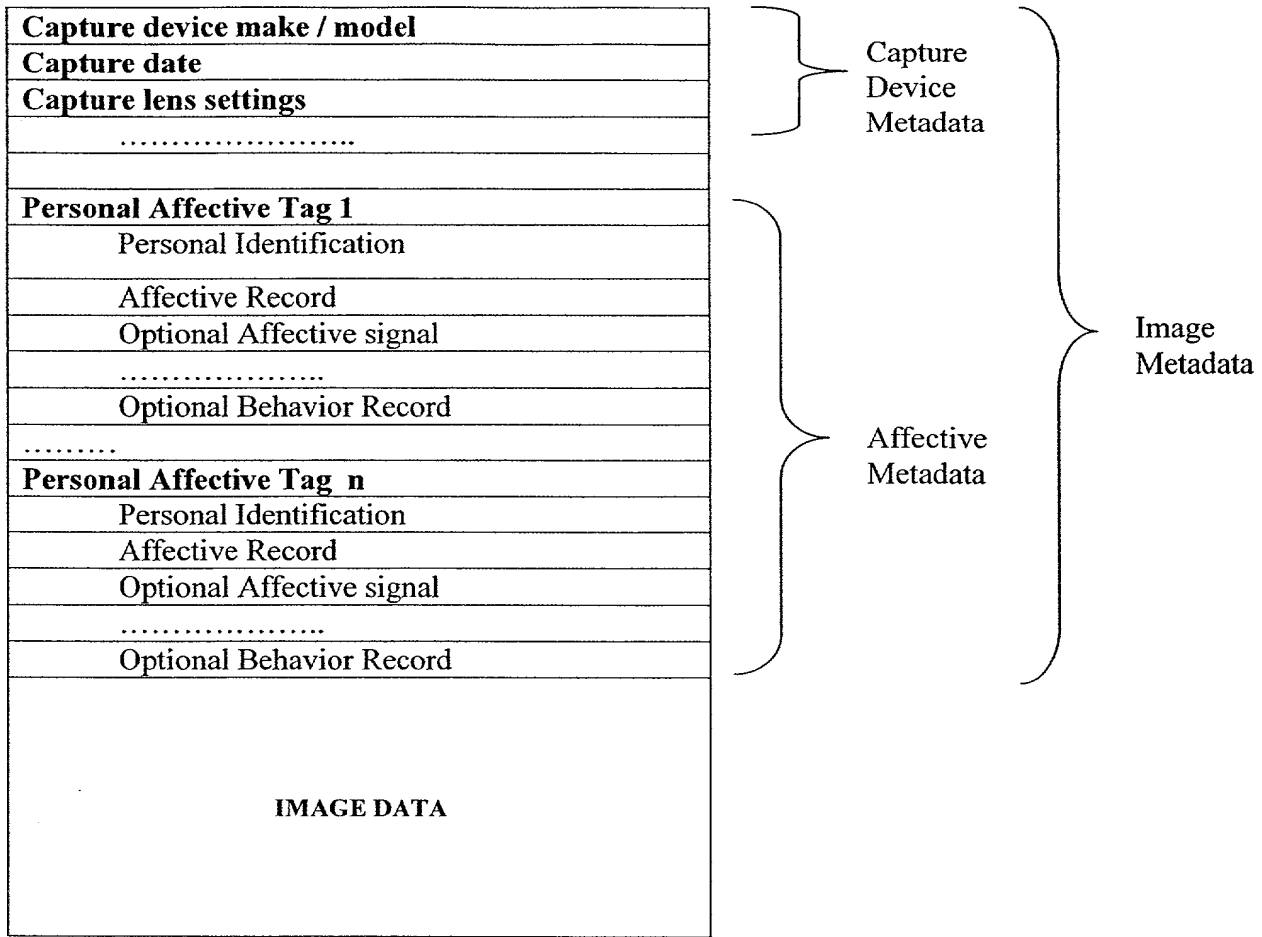


Fig 4C

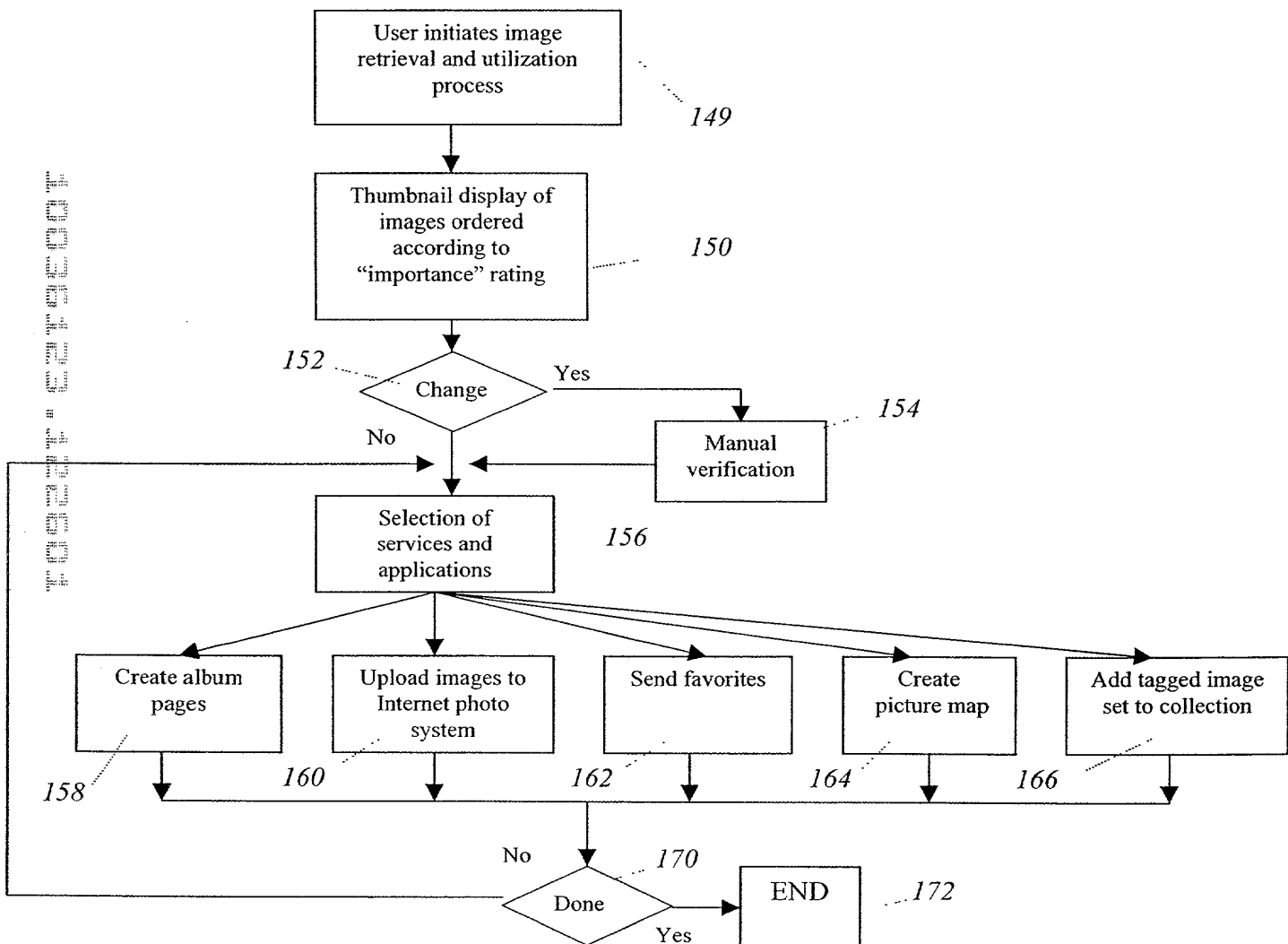


Fig. 5

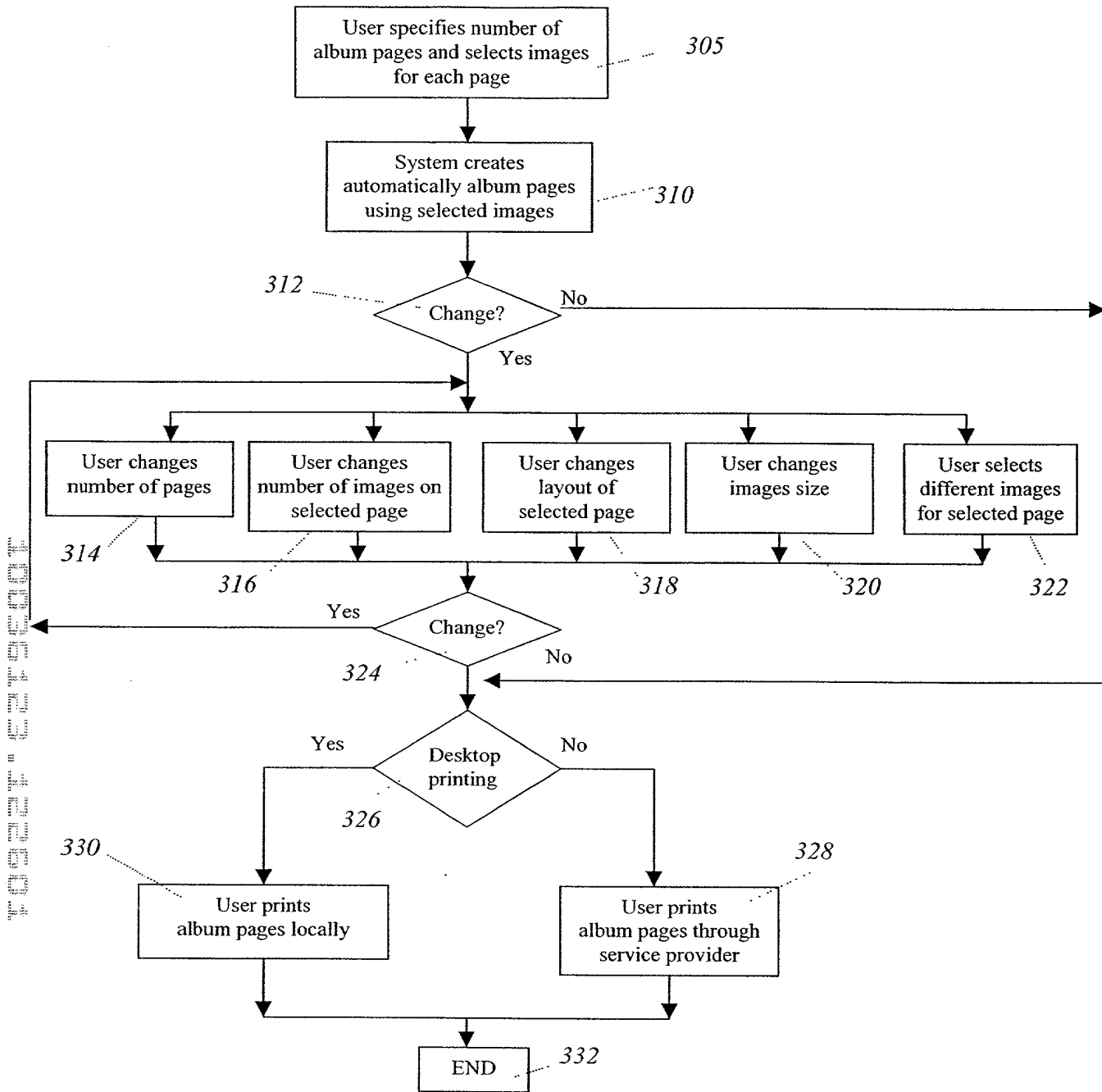


Fig. 6.



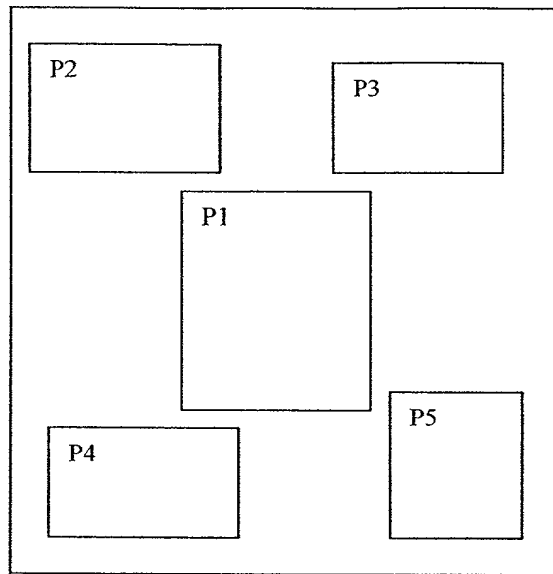


Fig. 7A. Album pages created by the system.

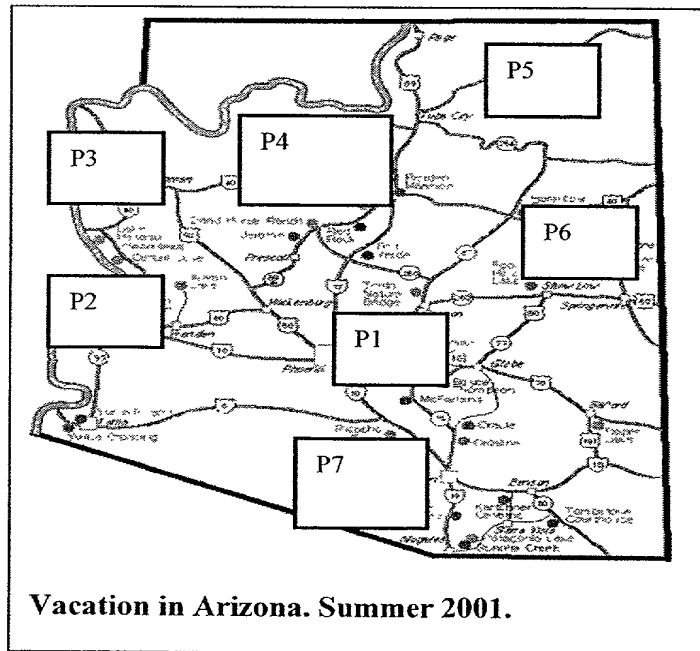
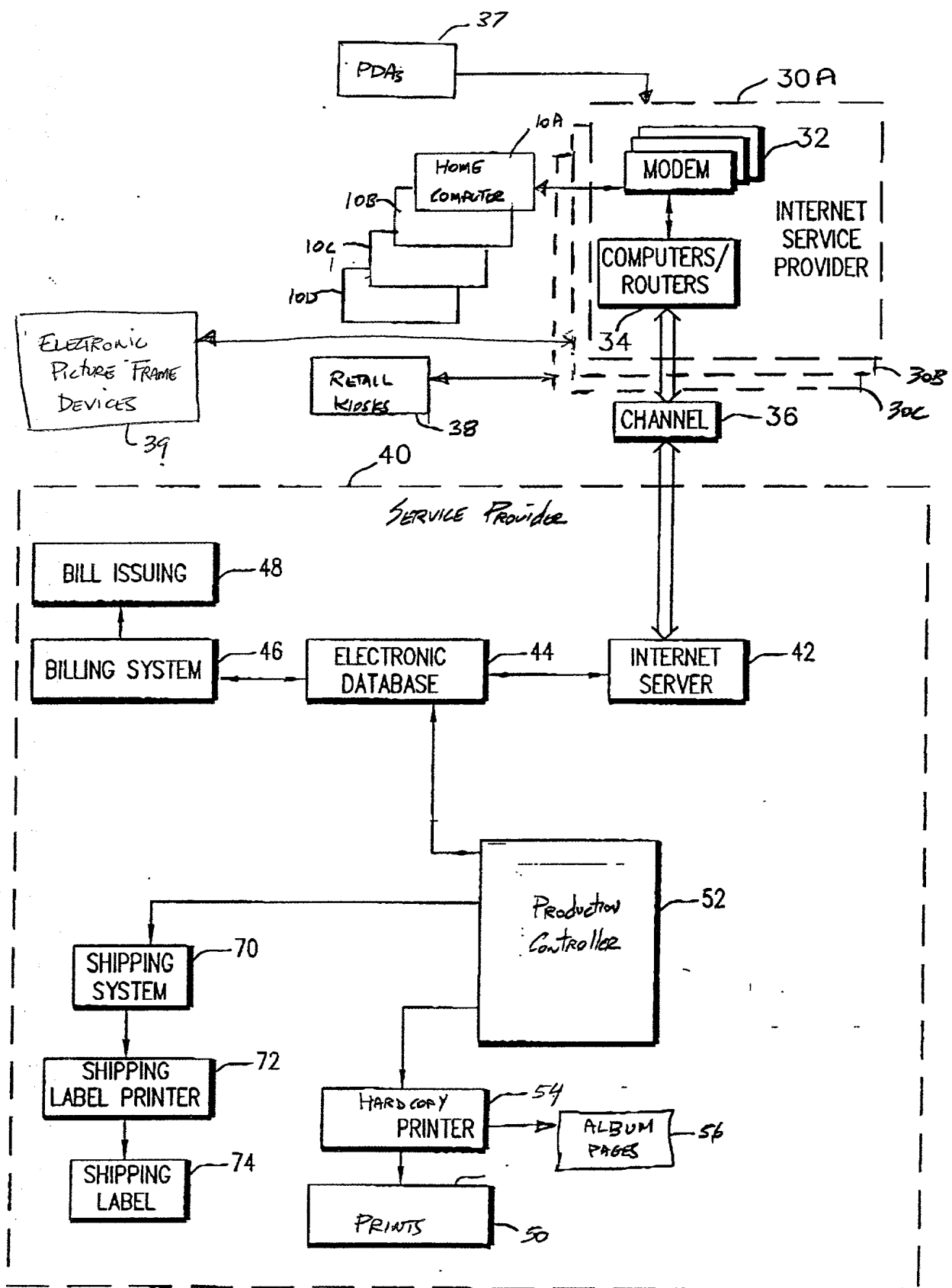


Fig. 7B. Picture map created by the system.

FIG. 8



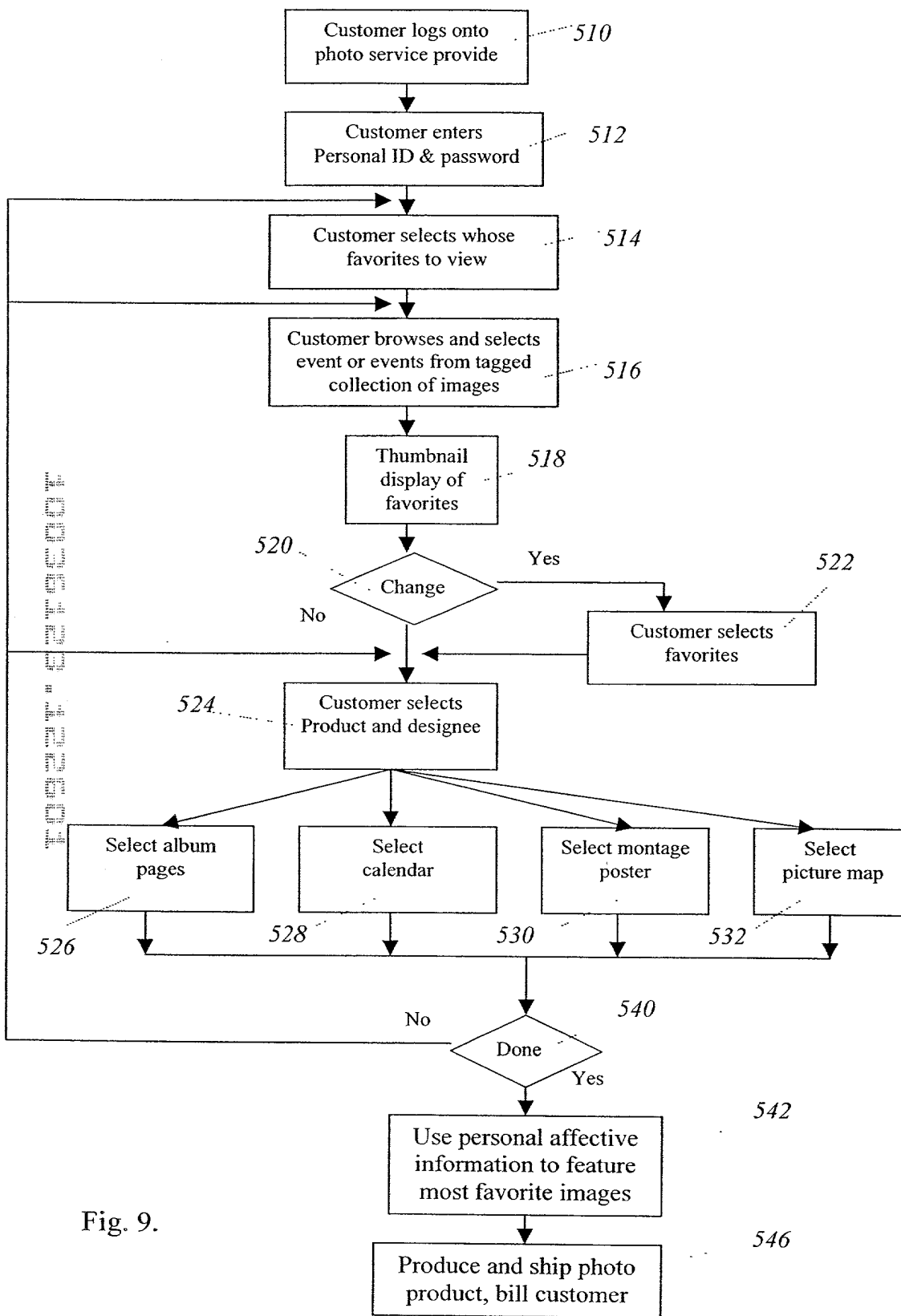


Fig. 9.